

SPR APPARATUS AND METHOD FOR SPR MEASURING USING POLARIZATION

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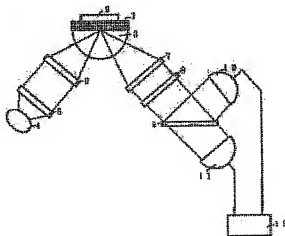
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Abstract of JP 2001041881 (A)

PROBLEM TO BE SOLVED: To measure a simple, accurate, reliable and stable surface plasmon resonance (SPR) by dividing a polarization of a reflected light reflected on a metal thin film into a component p and a component s and measuring the respective components in an SPR apparatus.

SOLUTION: A specimen flows to a sample cell 2, and a chemical reaction, an interaction between substances or the like is taken place on a surface of a metal thin film 1. The film 1 is brought into close contact with a prism 3. A light irradiated from a light source 4 is condensed by optical system lenses 5 and 6, and reflected on the backside of the film 1 brought into close contact with the prism 3. The reflected lights are converged to parallel beams by an optical lens 7, and the parallel beams are separated into a component p and a component s of the polarization by a polarizing plate 8. The respective components are measured by CCD cameras 10 and 11. Obtained image information is transferred to an information processor 12, data processed, and the data is then recorded.



(9)

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